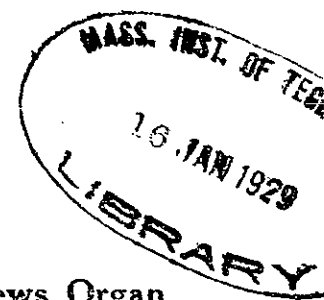


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of M. I. T.



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CAMBRIDGE, MASS., WEDNESDAY, JANUARY 16, 1929

Price Five Cents

JUNIOR PROMENADE SIGNUPS WILL BE MADE FEBRUARY 4

Annual Social Event Will be
Held in Hotel Statler
on February 21

PRECEDED BY TECH SHOW

Final arrangements for the Junior Promenade to be held in the Main Ballroom of Hotel Statler on February 21 are now being completed. As in former years the Tech Show will precede the Prom with the exception that it will be given in the Ballroom of the Hotel instead of Jordan Hall as formerly.

Immediately after the conclusion of the Show the seats will be removed from the floor in order to make way for the dancing which will start about 10 o'clock. Leo Reisman and his 20 piece orchestra will furnish the music for the affair.

Due to the size and the acoustic properties of the Ballroom the orchestra will not play upon the stage but will be placed at the spot at which the music can best permeate the hall. From 10 o'clock until 4 the orchestra will play, with the exception of intermission for dinner which starts at 12:30 o'clock.

Dinner in Georgian Room

In place of serving the dinner in several rooms as in former years, dinner this year will be served in the Georgian Room which is large enough to accommodate all the guests at the same time. This will enable all to be together instead of splitting up into several parties in different rooms.

Signup tickets for the Prom will come out on February 4 and will sell for five dollars each. The signup will be made on the following three days and there will be no preferential sale to Juniors on the first day as formerly. The sale of the tickets will be limited to 350 in number.

The cost of the Prom will be \$5 which includes the cost of Tech Show. Signups will be redeemed by paying the remaining amount of money at that time.

Voo Doo Insults Fraternities In January Number

Issue Released Tomorrow Shows
Some Unusual Cuts—Has
Clever Jokes

"Phosphorus'" latest contribution to the wit and humor at the Institute, the "Fraternity Number" of "Voo Doo," will be put on the stands tomorrow. Containing the usual features and editorials, the January issue is devoted to "razzing" the fraternities at Technology.

The cover itself is an innovation. Done in brilliant yellow on a flaming red background, it gives the idea of a fraternity initiation as interpreted by Wayne A. Sovers '30, a special student in the Architectural Course.

"Chick" Kane, well known to "Voo Doo" readers for his clever drawings in past issues, has his usual pictures in this number. Two full pages by him attempt to give the artist's impressions of house dances at several fraternities, events which at the time caused considerable stir among social circles.

Evidently there are ominous sur-
prises in store for Voo Doo readers when they open the new issue. At least the editors were extremely reticent about giving publicity on the magazine. Personal "cracks" and a general "razzing" seem likely. The editors re-iterate their former opinions on a "bigger and wilder Circus." "Despite Sunday School sneers, we still favor a REAL STAG CIRCUS" they say.

Among the other literary contributions is found a fraternity social column somewhat after the manner of the "Away from the Grind" column in THE TECH. As a matter of fact, it would seem that the "Voo Doo" has emulated the infamous "Filter Paper" in its motto of "Them we don't razz ain't worth it." W. H.

Corporation XV Completes New York Trip Plans

Twenty-five Men Have Already
Signed Up and a Few
More May Go

Corporation XV has made a few changes in the places to be visited on the New York trip which commences on January 27. The Paramount-Famous-Lasky Corporation is at present making sound pictures and their new rules state that absolutely no visitors can see the establishment in operation. In place of this company the group will visit the Brunswick-Balke-Callender Company Recording Laboratories where the Brunswick records are being made and the phonographs are being tested.

Mr. J. H. Lofland, Marine Superintendent of the New York, New Haven & Hartford Railroad, has just sent a letter stating that he would furnish transportation and a guide to conduct the business students through the company's tracks which are around New York Harbor. Also in case any of the firms is unable to take the group through their establishment Corporation XV is able to substitute a visit to the R. C. A. Photophone Company.

No Deposit Required

Already 25 men have signed up to go on the trip and there is room for a few more. No deposits are required, (Continued on Page 4)

"RIGID AIRSHIPS" SUBJECT OF TALK

Mr. Jerome C. Hunsaker '12 Will
Be Lecturer Tomorrow in
Room 3-270 at 1

"Rigid Airships" will be the subject of a lecture by Jerome C. Hunsaker '12, vice-president of the Goodyear-Zeppelin Corporation, in Room 3-270 at one o'clock tomorrow afternoon. The talk will be open to anyone interested.

Mr. Hunsaker is a graduate of the U. S. Naval Academy, and he received the degree of Doctor of Science from Technology in 1912. He was the first instructor in Aeronautical Engineering at the Institute, and is really the founder of Aeronautical Engineering education in the United States. He was in charge of airplane design for the Navy during the war and for some years afterwards. For four years he was Assistant Naval Attache in London.

The Goodyear Zeppelin Corporation has recently been awarded a Navy contract for the construction of two rigid airships larger than any which have yet been built and Mr. Hunsaker, who is in charge of the work, is therefore in a position to speak with authority regarding this branch of Aeronautics.

FEB. 7 IS DATE OF FRATERNITIES DANCE

"Tunesters" Will Furnish Music
at Social Function

At the last meeting of the Interfraternity Conference it was decided that as so many fraternities are holding initiations on February 8 the dance scheduled for that night will take place February 7 in the Louis XIV Ballroom of the Hotel Somerset. Coming as it does this year after exams it is thought that the dance will be better attended than the last one when many of the students had prospects of exams the next day. The "Tunesters" have been selected as the orchestra to play at the ball.

It was made known at the same meeting that interfraternity bowling, basketball, and bridge tournaments will start at the beginning of the second term. John M. Hanley '30, is in charge of the contests and he will announce the schedules shortly.

Carnival Proposal Will Be Voted on by Students

A general vote by the student body will take place today on the question of whether or not an All-Technology Carnival will be held this spring. The voting will be held in the Main Lobby from 9 o'clock until 5 o'clock and all students at the Institute have the opportunity to cast their ballot.

If two thirds of those voting are in favor of holding a Carnival it will be run this spring. Without this majority the proposal will not be passed. In order to secure the real student opinion it is necessary that a large number of students cast their ballots.

CHANGES FEATURE 1929 TECHNIQUE

New Athletic and Senior Picture
Sections Incorporated
in Yearbook

Technique for 1929 will appear with a number of entirely new arrangements and a different form of make-up according to an announcement of the Board of the yearbook. By far the most important change will be in the athletic section which will be thoroughly revised. All athletics will be divided into three divisions: Varsity, freshman, and Field Day. The borders, the method of placing the pictures, and the panels will be changed in the Senior Portfolio and feature section. The first few pages will also be made-up in a different manner.

All engraving for this volume will be done by the Canton Engraving Company of Canton, Ohio. This company does almost all the yearbook work for Eastern and Midwestern colleges. Better work and cooperation is expected because of the experience of this company in handling yearbooks. The Andover Press, which does all the work for Tech Show, was again awarded the contract for printing.

During the signup campaign beginning February 4, registration day, there will be an exhibit of Techniques at the Coop. Many of the old copies may be seen. Signups for the yearbook will cost \$1.00 and these signups may be exchanged at the redemption campaign for \$3.00 making the total cost of the book \$4.00. However, if a signup is not bought during the campaign the Technique will cost \$5.00.

ELECT DR. TRYON AS ADMISSIONS OFFICER

Dr. James L. Tryon was elected to the position of Admissions officer of the Institute at the meeting of the Executive Committee yesterday afternoon. Previous to this time Dr. Tryon has held the position of Assistant to the Secretary of the Faculty.

THINK BEFORE YOU VOTE

We are entirely convinced that an All-Technology Carnival held this Spring will be of immense benefit to M.I.T., if—and only if—it is well planned and capably managed, and receives the sincere cooperation of every undergraduate. Upperclassmen have already witnessed a Circus brawl—mob action that may easily be brought forth again, be it circus or carnival. Underclassmen can but take the word of Juniors and Seniors that another such incident is to the credit of no M.I.T. man.

Today the polls will be open to decide whether or not there will be an All-Tech Carnival in the coming term. From all appearances, student sentiment is largely in the affirmative—while the Institute Committee, after careful investigation and a heated discussion, decided in the negative by a very close vote. The matter remains entirely to undergraduate choice—a choice that may be unrepresentative and thoughtless, or the entire judgment of a thinking student body.

Should one vote from a narrow, biased point of view, one might cause the Institute no end of harm. The question is of no little consequence—rather it deserves most serious thought before one visits the polls. Admitted that an ideal Carnival would be a good thing, the question narrows itself to this: Is the student body capable of so planning, managing, and cooperating that a Carnival would be a lasting success? If so, vote Yes by all means; if not, kill the issue.

DORMITORIES CHALLENGE SCHOOL TO SHOW SPIRIT

"THE TECH" Banquet At Hotel Bellevue Ends Vol.

John Bakeless, Present Editor Of
"Living Age" To Be Main
Speaker

As the concluding event in the life of Volume 48 of THE TECH, excepting only Friday's issue, the staff and their guests will banquet at the Hotel Bellevue tonight, beginning at 6:30. The speaker of the evening will be Mr. John Bakeless, Editor of the "Living Age," who will speak upon topics pertaining to the foreign relations of the United States.

Approximately seventy people are expected to be in attendance. Among the guests will be President Samuel W. Stratton, Assistant Dean Harold E. Lobdell '17, Mr. Arthur W. Walker '32, General Manager of Volume 1 of THE TECH Dr. Allen W. Rowe, '01, Chairman of the Advisory Council on Athletics, Mr. John J. Rowlands, of the Institute News Service, James R. Killian '26, and John D. Crawford '27, Editors of Volumes 45 and 46, respectively, of THE TECH, and at present Managing Editor and Assistant Managing Editor of "The Technology Review," Ralph T. Jope '28, Circulation Manager of "The Technology Review," David F. Bremner Jr., '29, General Manager of "Technique," Jerome B. Geisman, '29, General Manager of "Voo Doo," and William Baumrucker Jr., General Manager of the recently concluded volume of "The Tech Engineering News."

Writer of Note to Speak

Mr. Bakeless is a graduate of Williams, Class of '18. He enlisted in the Army in the Spring of that year, and served as an instructor at Camp Lee. Following his discharge from the Army, he took graduate work at Harvard for two years. His first position on "The Living Age" was that of Literary Editor, which he accepted in 1921. Since then he has held the position of Managing Editor of the same publication, has been Managing Editor of "The Forum," has spent another year in graduate study, and was appointed last summer to his present position. He is the author of two books: "The Economic Causes of War," and "The Origin of the Next War."

In addition to Mr. Bakeless' talk, there will be entertainment by several popular favorites from Station WBZA, and other acts. Announcement will be made of elections and promotions to Volume 49 of THE TECH, which begins publication following the mid-term vacation.

PLAN TO FOLLOW BASKETBALL TEAM TO GAME AT YALE

Take Famous Dormitory Rooting
Section to Cheer Team to
Seventh Victory

CHARTER BUS FOR TRIP

Issuing a challenge to the world in general, the school as a whole, and the fraternities in particular, the dormitory cheering section is making plans for a demonstration of Technology spirit and pep such as has not been witnessed since Dewey was a cabin boy. The challenge is not an idle "dorm rumor" for it is receiving support from the M. I. T. A. A. and is reputed worthy of cooperation from every campus activity.

All the smoke and flame is being caused by the dormitory plan to charter a New England bus to follow the undefeated basketball squad to the Yale game in New Haven on Tuesday, February 12. The dorms plan to fill at least one bus themselves and challenge the remaining 2465 Technology students to pack another.

Expenses for the entire expedition will be approximately six dollars for the 320 mile trip and includes a ticket of admission and a seat in the special M. I. T. rooting section. Buses will probably leave the Institute at 2 o'clock the day of the game, and coach capacity is strictly limited to twenty-nine men. It is hoped that enough Technology spirit will be shown to have at least one hundred at the game.

Signups and full information may be obtained at any time from Jack Hanley '30, manager of basketball, in the A. A. office or from Glenn N. Andrews '29 in the Dorms by phoning Porter 1095-M.

Tech Show Plans For Annual Revue Progress Rapidly

About 70 Designs Are Entered
in Poster Competition
Held at Rogers

With the finish of the poster competition at Rogers, practically all the details for the production of "A Tech Riot" on February 21 at the Hotel Statler and on March 1 and 2 at John Hancock Hall, have been completed.

About seventy designs were submitted to Professor William Emerson in the poster competition at Rogers. These were judged yesterday but the selections still await the approval of the Show management. The winner of the contest will be announced in Friday's issue of THE TECH.

Before the show goes on the stage on the night of the Junior Prom, there remains to be done the taking of numerous pictures and the whipping of the cast and chorus into their final form. All members of these two branches of the show have been chosen, but not all have been measured for costumes. To facilitate the work of the stage department it is necessary that the rest be measured before tonight.

Business Manager Frank P. Nettleton '30 reports that the advertising space in the program is almost entirely filled and that the program will go to press by the first week in February. Willis Fleischer '31, acting Music Manager, hopes to find someone to play the piano in the orchestra, since the only performer on that instrument has been obliged to leave school. The songs selected under the guidance of Dancing Coach Langdon Matthews, will be popular in nature and give promise of producing some very snappy dancing.

General Manager Virgil W. McDaniel '29 is at present in the infirm- (Continued on Page 4)

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J. R. Swanton, Jr., '31

ALIVE AND KICKING

SINCE the submission of the Student Inquiry Report to the Faculty last May by Elisha Gray '28 of the Institute Committee, little or nothing has been heard by the undergraduates either of Faculty action upon the report or of further action by the Curriculum Committee. "Another report gone wrong," one might conclude; "another committee fallen by the wayside." Gone wrong? Dropped by the way and forgotten? Not by any means. The Curriculum Committee is very much alive, and the report itself has already received consideration by a group of Faculty members appointed by the President to follow up the investigation. Furthermore, this committee was instructed to confer with the student committee for the further discussion of matters of mutual interest.

This group, known as the Faculty Committee on the Student Inquiry, consists of Professors Samuel C. Prescott '94, chairman, and Professors Charles E. Fuller '92, Joseph W. Phelan '94, Walter M. Fife '21, and Louis H. Young '15. The departments they represent could scarcely be more generally distributed among those at the Institute, and President Stratton, in selecting these men, has shown most careful judgment—the obvious opinion of those who know them at all well.

Of the Student Committee, Richard M. Boyer '29 is chairman; the Senior members are Ralph B. Atkinson, and Hunter Rouse; and from the Junior Class, Charles C. Ladd, and Theodore A. Riehl. Three of these students took part in the undergraduate investigation of the preceding term, and hence are entirely familiar with the work that has already been done.

While the two committees are both independent bodies, they have already held three joint meetings involving some nine hours of discussion, with the Student Inquiry as a working basis. In these meetings the undergraduates present to the Faculty representatives student attitude as to courses and contact with the staff in general; as a result, real efforts are made, both jointly and severally, to bring about a solution of the existing problems.

This is the first official connecting link between the instructing staff and the students that has ever existed at M.I.T.—in itself a noteworthy fact. The work of the combined committees has not yet been of sufficient duration for definite results to be apparent—here time is a most necessary requisite. However, so essential is this mutual contact, and so satisfactory have been the first few meetings, that undoubtedly a finer understanding between students and staff will come into existence, with the change in the near future of the two present groups into permanent committees.

FREEDOM

NO human is completely free. He is always responsible for and dependent upon certain factors; it is only human that he should be. There are many causes for these responsibilities—perhaps friends, business, physical needs, or perhaps only time, which robs men of their freedom.

"The only freedom" says Mill, "which is worth the name is that of pursuing our own good in our own way so long as we do not attempt to deprive others of theirs, or impede their efforts to obtain it."

Yet are we always qualified to pursue our own good "in our own way"? Should we sometime not have faith in others to direct our pursuits?

Here at Technology we have decided to rely upon the sagacity of others in directing us toward a selected goal, else we would not be here. We are required, under this chosen guidance, to study certain subjects which seem to have little or no bearing on our final careers. Yet we can be confident that they form an essential part of the foundation or they would have been long since eliminated by the vigilant heads of departments.

The longer we can secure wise direction in activity, the better. Because the more expert the direction, the more free we are to delve deeper and deeper into the subject, thereby gaining more knowledge—and the wisest man is the freest man—in every sense.

N. Y. Motor Show Introduces Many New Developments

Story of the Perfected Piston Told—New Fuel Pump is Generally Used

In connection with the auto show in New York, Charles B. Bohn, President of the Bohn Aluminum and Brass Corporation, told about the perfection of the piston. Since each piston travels about two and one half miles for every mile that the automobile travels, it is one of the most important parts of the car.

In the earlier days, all pistons were made of cast iron, which had desirable qualities with the exception of weight. Heavy metal required heavy parts with which to operate. This in turn meant more power and greater gasoline consumption in order to lift the heavy piston up and down with such a velocity.

After years of experimenting, a new light alloy for pistons was developed that would greatly reduce weight, and at the same time maintain a high rate of heat conductivity, which is essential to efficient motor performance. Light weight is important to overcome inertia in order to produce that smooth, vibrationless power, and to reduce wear on connecting-rods and main load bearings to a minimum. High rate of heat conductivity is necessary to maintain piston head temperatures below the point at which pre-ignition occurs and below the heat at which lubricating oil will crack and carbonize.

Construction Difficulties Great

In the earlier efforts at solving the problem, the great expansion of the alloys was a troubling factor. Piston slaps developed and there were difficulties in oil control. The problem presented was that an ideal piston must be so designed that advantage could be taken of its lightness and high rate of heat conductivity combined with scientific expansion control of the skirt portion permitting very small clearance.

It was at this stage of experimentation that the Invar Strut was introduced. These are backbones or braces of special alloy steel struts which are cast in and become an integral part of the piston permanently anchored in place. The advantage of this will be noted when it is explained that this type of design scientifically controls expansion. Now a better fit of piston to wall is possible, and the remarkable acceleration which is possible today is a result of the invention of these new light pistons.

Fuel Pump Adopted by Prominent Manufacturers of Cars

Widespread adoption of the fuel pump during the last twelve months is one of the greatest auto developments. Prior to July, 1927, not a single car was equipped with a fuel pump of any kind. Today there are thirty users of it here and abroad, and this number will be greatly increased this year.

It is interesting to recall that the fuel pump, which had been under test for many years, made its initial appearance on the first Oakland All-American model in 1927. At present there are three quarters of a million cars now in service equipped with the pump.

The fuel pump has really added another manufacturing activity to the industry, and its quick acceptance by the many prominent car manufacturers, together with a huge increase in other business, has necessitated building expansion totaling three quarters of a million dollars.

Student Has Good Chance to Remain in the Institute

Last Year's Statistics Indicate That High Percentage of Group Pass Courses

If you are a gambling man you may be willing to give odds as high as one to 20 that you will stay in school next term. If this year is like last, only 54 men out of each thousand will "flunk out."

These figures were obtained from the "President's Report" for 1926-27, the latest available source of information along this line. In this report it is stated that 145 men were dismissed by the faculty for poor scholarship during that year. The figures were calculated from a total enrollment of students of 2671.

Additional data secured may bolster up the courage of freshmen who are doubtful as to the continuation of their education. At the end of the first ten weeks of the present term, approximately 80% of the Class of

Dr. Tryon Claims That High Expenses At Institute Keep Southerners Away

Newly Chosen Admissions Officer Gives Impressions of Five-Week Trip

Not the formidable reputation for hard work which the Institute has acquired, but the comparative high cost of tuition and living expenses is responsible for the small number of Technology undergraduates from Southern states. Added to these important factors is the fact that in the South there is a general lack of technique in the preparation for College Board Examinations.

These significant statements were taken, in effect, from the recently available report by Dr. James L. Tryon, elected yesterday, Institute Admissions Officer, who took a five-weeks trip throughout Virginia, the Carolinas, Georgia, and Tennessee, visiting and studying educational institutions in the South.

Meets with Cordial Reception

Profiting by his experience on similar trips during the past two years, Professor Tryon made arrangements some time beforehand. Leaving Boston on November 10th, he found his way had been well prepared for him by accrediting letters which President Stratton had written to the heads of those schools to be visited.

Descriptions of bus and train connections and local educational situation were obtained from Institute undergraduates familiar with the territory. Major Robert C. Eddy, of the Military Science Department, enlisted the aid of the R. O. T. C. commandants along the route, and several professors called upon their acquaintances in Southern institutions for assistance in showing the Institute representative the "lay of the land." Dr. Tryon reports that army officers and civilians gladly cooperated and that he was able to learn far more than would otherwise have been possible.

The topic of all speeches made during the trip was Technical Education. To the audiences was explained the M. I. T. system, the chief characteristics of the seventeen courses, the scholarship opportunities and chances for earning money while engaged in study. At engineering colleges especially, the excellence of post-graduate courses was dealt upon. In the case of students intending to transfer, advice was given as to their probable credit or they were advised what further subjects to take in order to gain credit and thus save themselves time after admission.

High Costs Main Objection

Neither the Institute's reputation nor lack of varsity football and baseball seemed to be seriously objectionable in the Southerners' minds. The heavy expenses here were a big drawback, however. In the South, total yearly expenditures roughly speaking, are \$450 to \$800 as compared with \$1100, minimum, up to \$1500 in the North. Tuition there is seldom over \$75 and often nothing; board and room in some centers \$30 to \$40 per month.

Coupled with these disadvantages is their inability to meet the more stringent entrance requirements, an important consideration in attempting to recruit students from the South. Only a small number of high school students take or are drilled for College Entrance Board Examinations. "The atmosphere for them is lacking," to quote the report verbatim.

Follows Long Itinerary

After addressing classes at the high schools in Norfolk and Portsmouth, Va., Dr. Tryon was entertained in and about these two towns. Through the contacts he made there, he learned that most engineering students in Virginia high schools usually go to the Virginia Military Institute, where expenses are moderate.

On the way to William and Mary College the Army school at Fortress Monroe was visited. A short stay there was followed by a closer inspection of the College at Williamsburg. In Richmond the President and Secretary of the Technology Club there entertained most hospitably and showed their guest every attention. After speaking to about 600 high school students in Richmond the greater part of the day was spent by the Professor at Richmond College. Here a group of undergraduates desirous of further work at the Institute was met.

At Randolph-Macon in Ashland,

1932 were given passing grades in Chemistry 5.01, Physics 8.01 and Calculus M-11. It is usual that the ten week's grades are indicative of the final average, according to authorities.

Virginia, enlightening discussions with faculty members were held. Then in quick succession the Petersburg High School, Hampden-Sydney College, and Appomattox High School were visited. In Lynchburg college officers of the Randolph-Macon College for Women and Lynchburg College were met with, and an address was made to the boys of Lynchburg High School.

Sees Many Colleges

Continuing from this point, a program of activities was pursued during visits to the University of Virginia, Staunton Military Academy, Washington and Lee University, V. M. I., and V. P. I. Of these last two, Dr. Tryon writes, "It is not my purpose to compare institutions, but I could not fail to be impressed with the devotion of the professors of all southern schools to their work and by their intimate acquaintance with their student body, a feeling which grew upon me as I finished my brief inspection of these two schools."

Leaving Virginia, Dr. Tryon's route included Duke University, North Carolina State College, Wake Forest College, St. Mary's College, University of North Carolina, The Citadel, Porter Military Academy, University of South Carolina, University of Georgia, Georgia Tech, Atlanta High School, Emory University, and the University of Chattanooga. Although original plans of visiting the "University of the South" (Savannah) had not been fulfilled it was thought prudent to end the trip, because reports were coming in from everywhere of schools closing on account of the epidemic of influenza.

In conclusion, Dr. Tryon says, "My five weeks among southern educational institutions gave me a much deeper insight into our college transfer and graduate student problem than I could ever have got from correspondence, catalogues, or office interviews alone, and I brought away with me memories of many kind southern hearts."

Spend on Selves Until 40, Youths Advised by Ford

Ability to Make Good Investment Best Qualification of a Business Man

Henry Ford has reversed the time-honored advice usually given to young men who seek to accomplish things. Instead of the customary platitudes about thrift and saving money for the rainy day, he declared: "No successful boy ever saved any money."

"A boy's job is not to accumulate dollars, but to use them to prepare himself with the training, knowledge and experience which every leader needs. If a boy saves, it should be with such expenditure in view," Mr. Ford said.

"The last thing a boy needs is this idea of hoarding money. The one thing he does need is to learn how to spend money—all the money he can get—for self-improvement."

"To know how to spend money is one of the qualifications of any business man. I don't see how any one can learn how to spend money wisely except by spending it. No man ever built a productive institution of any kind by saving money. That is done by knowing how to spend wisely. Invest in yourself until you are forty. It is time enough to save when you can earn more than you can spend wisely. But you will never get to that point by saving."

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VARSITY MARKSMEN WIN RIFLE MATCH FROM U. S. MARINES

**Sophomore Makes Highest Score
in Latest Victory of
Institute Team**

NEXT MATCH ON FRIDAY

Having won its third straight shoulder-to-shoulder match, the Varsity Rifle team seems well on the way to another New England Championship. The United States Marines, known for their deadly accuracy, were the latest victims of the Engineer sharpshooters, scoring only 735 points to the total of 835 for the Institute team. The match was fired on the Institute range Friday night.

Firing prone and standing, each man was allowed 10 shots in each position. Five men constituted each team, all scores counting. The teams were about even in prone firing. It was in the standing position that the M.I.T. marksmen showed their superiority over the Marines and amassed their overwhelming lead.

Hamilton Fires High Target

Hamilton of Technology, a Sophomore shooting in his first shoulder-to-shoulder match, turned in the highest score of the evening, his two strings totaling 173 points. Second honors went to Twaragowski, who was close on Hamilton's heels with a score of 172. With these two men leading, the other members of Varsity finished in the following order: Kohler, 166; Orleman, 163; Loomis, 161.

Results of the telegraphic matches fired in intercollegiate competition last week are not yet known. Johns Hopkins University and Connecticut Agricultural College not having reported as yet.

In Match at Sportsmen's Show

This week presents an unusually busy program for the shooters. Most of the time will be devoted to intensive practice for the shoulder-to-shoulder match to be fired against Boston University as a feature exhibition of the Sportsmen's Show. The match will be shot at the Show on Friday night, and will be open to spectators. For those who have never witnessed a shoulder-to-shoulder rifle match, and very few are open to visitors, Friday's exhibition offers

an opportunity that should not be neglected. Those Technology men who visit the Show that evening should drop over to the rifle range and watch their team, the Champions of New England, perform.

The rest of the week will be taken up with more intercollegiate telegraphic matches, Carnegie Tech and the University of Wyoming furnishing the opposition. The R. O. T. C. team will fire the second stage of the First Corps Area R. O. T. C. match sometime during the week.

Yearling Boxers Train For Meet With Yale Frosh

**Competition Keenest for Light
Weight Classes on the
Freshman Team**

Holding practice three times a week in the Hangar Gym, the freshmen are preparing for their first meet with Yale, which will be at New Haven after examinations. The freshman squad has been practicing diligently, and much good material is being developed into first class boxers. Competition has been particularly hot in the light weight positions, which should make a strong yearling squad this year. In the unlimited, and 175 pound classes, the freshmen are unrepresented, and all heavy men who are interested in boxing are urged to sign up for boxing in Coach McCarthy's office before Thursday noon.

In the 125 pound class, the freshmen have one of the best men out for boxing, and Parks will undoubtedly be a mainstay on the freshman team this year. In the 120-pound class, Robert has been doing good work, and with practice should develop into a fast boxer. Competition in the 145-pound class has been particularly hot, the two main contenders being MacDonald and Schultz. Both are fast, and have a punch that will make this berth on the yearling team one of the strongest. The 175 and the unlimited berths are still empty, but it is hoped that these positions will be filled before the meet with Yale.

Saturday's handicap meet certainly uncovered some strong points in the track squad that had been more or less hidden. These came as an agreeable surprise to all those who are interested in this sport.

Captain of Track Team For Season of 1928-29



John T. Hallahan '29



The work of Dick Berry in the 300 was an unforeseen accomplishment, as this man is normally at best in the longer races. He took the race from Ladd, one of the best sprinters on the squad, aided only by the slight advantage of a two-yard handicap. Berry showed promise last spring of becoming a very good half-miler; his work this season gives strength to that prophecy.

Gilman, the freshman distance star, ran a masterful race in the 1000-yard event. His action was as smooth as could be desired, and he had surprisingly little trouble in passing the older men at the game and finishing with a smile on his face. He is another man who should do big things before very long.

The mention of Gilman brings to mind the large delegation from Quincy who are bestowing their talents on the track team this year. Quincy has always furnished the Institute with a large number of athletes, but this year is an especially good one

in that respect. The men coming from that neighboring town who are holding regular positions are Dick Baltzer, Herb Allbright, Joseph Curran and Norman Earle on the Varsity, and Don Gilman and Ralph Wayne on the freshman squad. It has been suggested that these men could meet the Quincy High School team of this season and give them plenty of competition.

Ralph Wayne, our freshman flash, continues to win dashes. The coach is perplexed before each meet as he continually cuts the handicap of this man. As the Varsity stars move farther and farther ahead of the scratch position, and still Wayne manages to come through with win after win.

Bror Grondal, the winner of many points in the shot put since his entrance at the Institute, is now sporting a gold medal which he won Saturday evening at the Y. M. C. A. meet. He won this event with a toss of more than thirty-nine feet, which was the best heave of the evening, disregarding his handicap.

The time trials for the Varsity and freshman relay teams are being held this week. The men are progressing rapidly and the hope grows steadily for an exceptionally good outfit. The meets are not far away, and the men are not losing any time in preparing for them. There is always a good deal of interest in this form of track sports here at the Institute.

The annual K. of C. meet will be held on January 26, the Saturday of exam week. Coach Hedlund has prepared the entry list, which bears the names of several of the best men on the team in each of the different events. He has made a tentative list for the mile relay, from which to pick four men to form the team. The other events in which Technology men have been entered are the 50-yard dash, 300 and 600-yard runs, 3 1/2-mile run, and high jump. The last is a New England championship event.

VARSITY QUINTET CEASES PRACTICE UNTIL NEXT TERM

**Freshmen Will Continue Working
During the Remaining Days
of This Week**

YALE NEXT ON SCHEDULE

With the season half over the Varsity basketball team has ceased practice in order to prepare for final exams. The next game will be played on February 12 when the Engineers meet Yale at New Haven. Practice will be resumed at the beginning of next term and that will give the team a little more than a week to prepare for the Yale game.

Meanwhile the freshmen are still practicing and will not lay off until the end of the week. Their next game will be on the thirteenth of February when they meet the Boston University Business College. Practice this week will consist mostly of light scrimmages and basket shooting.

Two of the hardest games on the remainder of the schedule are the Yale and Providence College contests. Yale has about split even so far this season and most of the games that they have played have been rather close.

Providence College on the other hand has won a majority of the games that it has played and it has one of the strongest teams in the East. The other teams that the Engineers will meet are University of New Hampshire, University of Maine, Massachusetts Agricultural College and Bates.

Last Saturday was not the first time in five years that the Engineers have beaten Harvard, but the first time in eight years. Coach McCarthy has been coaching for five years and it

(Continued on page 4.)



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The better high schools and other preparatory schools in the United States offer adequate preparation for the required entrance examinations given by the College Entrance Examination Board in June, or by the Institute in September.

Graduates of colleges or of scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding to at least one year's work at the Institute, are admitted, without examination, to such advanced standing as is warranted by their previous training.

The Summer Session extending from June to September includes most of the subjects given during the academic year and in addition special courses for teachers.

Any of the following publications will be sent free upon request:

Catalogue for the Academic Year (which includes the admission requirements).

Summer Session Catalogue.

Graduate Study and Research.

Correspondence should be addressed to
The Massachusetts Institute of Technology

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OFFICIAL BULLETIN

AERONAUTICS

A lecture will be given on Thursday, January 17, at 1 P.M. in Room 3-270 by:

Mr. Jerome C. Hunsaker

Vice President of the Goodyear Zeppelin Corporation

The Subject: "Rigid Airships"

Open to all interested

CALENDAR

Wednesday, January 16

7:00—Mathematical Seminar, Faculty Dining Room.

8:00—Alpha Chi Sigma Smoker, Grill Room.

Thursday, January 17

12:00—Faculty Club Luncheon, Faculty Dining Room.

1:00—Aeronautical Lecture, Mr. Jerome C. Hunsaker '12, Room 3-270.

6:00—Boston Theta Chi Club, Dinner Meeting, Faculty Dining Room.

Notices and Announcements

SIGNAL UNIT REQUIREMENTS

The 1929 catalogue will contain detail of the changes which are listed below in general terms:

Wire Communication 6.281 and Radio Communication 6.282 will no longer be a requirement of the Signal Unit Course. These two courses have been replaced as follows:

Course VI. Professional electives.

Course VI-A. Regular fourth year course.

Course VI-C. Regular fourth year course.

Course VIII. Electives along physical or communication lines, which will meet War Department requirements.

Course IX-B. Electrical Communication 6.301 and 6.302.

Course XIV. Regular fourth year course.

Anyone desiring further information about these changes will please see Capt. George S. Eyster, Signal Corps, Room 3-003.

SENIOR PICTURES

Proofs of all Senior pictures which have not been returned as yet should be returned to the Technique Office on the third floor of Walker Memorial immediately. Proofs of pictures taken before Christmas vacation cannot be had any longer.

OUTLINE COURSES FOR SIGNAL CORPS

New Subjects to be Presented in Reorganization of Course by Capt. Eyster

Captain Eyster, the new Signal Corps officer on duty at the Institute, has reorganized the courses in Military Science given for those students who desire commissions in the Signal Corps Reserve. The following is a résumé of the general outline of the new courses.

In MS 223, sufficient military law will be given in order to give the student a general knowledge of the procedure of the Courts-Martial, and of the military law to which he will be subjected when called into active service as a Reserve Officer. In addition, the organization of signal troops as a part of a field force, with a view to instructing the students in the relation of signal troops to the other combatant branches, and tactical principles which will familiarize the student with the general principles of tactics as they are employed by the combatant arms, will be covered in the new course. Signal communication equipment will be demonstrated for the purpose of acquainting the student with the capabilities and limitations of military telephone, telegraph, and radio apparatus. Instruction in the International Morse Code will be given but code instruction will not be emphasized as in previous courses.

MS 331 and 332 will include theory and practice involved in the use of field telephones, switchboards, and telegraph equipment, the employment of signal troops and the relation of communication systems to the tactical employment of the Infantry, Cavalry, and Artillery. Lectures and practical work in the use of codes and ciphers, and the operation and general theory of field radio sets will also be given. Instruction will be carried on by means of lectures and map problems.

TECH SHOW REVIEW PLANS ARE MATURING

(Continued from Page 1)

ary, but is expected to be back at his desk before the end of the week. The management takes great pleasure in announcing that Virgil W. McDaniel '29, General Manager, has returned to his desk and has resumed the direction of the Show.

B. A. A. TICKETS

Through the courtesy of the Athletic Committee of the Boston Athletic Association, a section has been reserved in the "Circle" for M. I. T. men and their friends at the Arena, Saturday evening, February 2. Tickets are \$3 each. Application should be made by mail (with check or money order enclosed) to Frank H. Briggs, 390 Commonwealth Ave., Boston not later than January 31. Tickets will be mailed about January 25.

TECH SHOW

Measurements for all members of the cast and chorus who have not yet been measured will be taken this week in the Show office every afternoon after 5 o'clock. Costumes will be made up during examinations.

A piano player is needed for the Tech Show orchestra. Candidates for the position are requested to report to Willis Fleischer, '31 Music Manager, any afternoon after 5 o'clock.

FRESHMAN TRACK

All men wishing to substitute track for P. T. must sign up in McCarthy's office before January 17. All cuts must be made up before this date.

TRIALS FOR K. OF C. GAMES MAY BE HELD

If weather conditions become more favorable than at present there will be some trials held Thursday or Friday of this week for the relay teams that will run in the K. of C. games on January 26. A Varsity team must be picked that will run in the mile relay against Brown. The leading candidates at this time are Ladd, Hallahan, Reynolds, Berry, Gonzalez, Lappin, and Wood.

INTERCOLLEGIATE

"George Bernard Shaw has finally come into his own, and from a newspaper standpoint, nobody in existence today is worth more to the front page of a newspaper than he" said Dr. Richard Burton in a recent lecture at Columbia. "Two years ago, when Shaw became seventy, many things happened which illustrate that although he had become notorious in one sense, he has become famous in another. Parliament celebrated his birthday with a dinner; Shaw was asked to express the doctrine of Socialism for an Encyclopedia; many European newspapers published a Bernard Shaw issue and he was awarded the Nobel prize, the greatest honor that can be bestowed for international accomplishment."

"There are two Shaws," he declared, "Shaw the first being a shameless egoist who tells the world that he is better than Shakespeare, who is never serious and is continually trying to set things topsy-turvy; and Shaw the second, who is intensely earnest and is interested in bettering social conditions."

"Shaw has said he believes his life belongs to society and he wants to do what he can for it, before passing the work on to others. Whatever we may think of Shaw, he absolutely is a good man, a sincere citizen, a humorist and deep thinker," stated Dr. Burton in conclusion.

A telechron clock is the latest addition to the Engineering College of the University of Akron. The clock is run by a small motor which is its entire mechanism and this in turn is run by electricity from the city of Akron power lines.

PROFESSOR DANA EXPLAINS RUSSIA TO LIBERAL CLUB

Contradicts Impressions Held by Most Americans in Regard to Russia Today

EDUCATION NEEDED FIRST

Contradicting most of the general impressions that the average American who has never been abroad holds, Professor Harry L. Dana told the Liberal Club of "Russia as I Saw It" in his address yesterday afternoon. "Most Americans believe that everything that is not 100% Bolshevik is suppressed, but those who have lived and observed conditions in Russia today know that this is not so."

"Even our impressions of the first six months must be modified and verified by our later impressions." Most visitors to Russia are unused to the Russian manner of doing things and consequently misinterpret the things they see and bring back their false impressions to the United States.

"Russian's two great problems today are, first, to educate the great masses of people, and second, to put before the people stimulating discussions of present problems in Russia and past literature and art." Formerly only 50% of the children could obtain education of any sort but today the government is trying to reach at least 75%.

"With this increase of the great masses of people just beginning to read and write has come a great hunger for new things." Newspapers have increased in circulation from two million before the war to over eight million today. The circulation of books has also correspondingly increased.

"Another astounding fact is that there is hardly a single dramatist who has not been presented since the war, and the extraordinary thing is the number of pre-revolutionary plays they have been conserved." Most people believe that Bolshevik plays are the only ones allowed, but some of the living Russian authors are anti-revolutionary.

Professor Dana summed up Russia as a whole by stating that it is a non-conservative government that is trying to conserve the best things of the past.

ACCEPT RESIGNATION OF MILES GRAY '29

Eligibility Cards Discussed by A.A. Executive Council

It was voted to accept the resignation of Miles R. Gray '29, as captain of track at a meeting of the M. I. T. A. A. Executive Council which was held in Walker Memorial, at 5 o'clock on Monday.

Eligibility cards for intramural competition were discussed, and Edward A. Yates '29, was designated to look up the matter of purchasing a rug for the M. I. T. A. A. office. The rug is to be purchased from the proceeds received from season tickets. A suggestion that a group be organized to go to the Yale-M. I. T. Basketball game and pay part of the transportation was unfavorably received.

LEXINGTON TEACHERS HEAR MUSICAL CLUBS

Concert Followed by Dancing—Music by Tecthonians

Appearing before an audience of approximately 300, the Combined Musical Clubs entertained at a concert sponsored by the Lexington Teachers' Club, in the High School Auditorium at Lexington last Friday evening.

The attendance of Club members was fairly large and the program was very well received by the audience. Two groups of popular medleys by the Banjo Club received a great deal of applause, as did also a baritone solo by James Yates G. and a specialty xylophone solo by Gardner Harvey '32. The concert was followed by dancing in the gymnasium, music being furnished by the Tecthonians.

Columbia and Dartmouth recently made an innovation in debating by substituting informal speeches and cross-questioning for the usual procedure in debate. The question at stake was, "Resolved: That salesmanship is the curse of modern age." The teams were composed of two men each, one speaker on both sides giving a direct speech.

The remainder of the debate was devoted to rebuttal, during which the second member of each team cross-examined their adversaries. The second man on the side under-going cross-examination, gave spontaneous and immediate replies to the questions asked. This form of college debating is quite original.

China Is Lecture Topic At Meeting Of Faculty Club

Dr. Holcomb Tells of Experiences—Health Work Subject of Talk Tomorrow

"China" was the subject of an address given by Professor Arthur N. Holcomb Ph. D. before the last meeting of the Faculty Club held yesterday noon in the Faculty Dining Room at Walker.

Dr. Holcomb is Professor of Government at Harvard University. He has recently returned from a year's leave of absence, a large part of which time he spent in China, observing and analyzing the situation in that country. The Doctor spoke particularly of his personal contact with Marshal Feng, whom he considers to be the strongest of the Chinese leaders today. In particular Professor Holcomb emphasized the very considerable part being played in Chinese government today by Chinese graduates of American colleges and Universities.

At the next meeting of the Club, to be held tomorrow noon in the Faculty Dining Room, Professor Alice Hamilton, M. D., will speak on "The Health Work of the League of Nations."

Dr. Hamilton, Assistant Professor of Industrial Medicine at the Harvard Medical School, has been a member of the Health Section of the League of Nations since 1924, and in that capacity she has had an unusual opportunity to become familiar with the significant work of the League in this field. She is also one of the recognized authorities in the United States on Industrial Hygiene and Occupational Diseases.

BASKETBALL SEASON CLOSED UNTIL FEB. 9

Freshman Cagemen Will Practice While Varsity Studies

(Continued from Page 3)

is the first time since he has been here that the Cardinal and Gray have beaten the Crimson.

While the five at the Institute are taking a rest preparatory to the final examinations and the mid-term vacation, other five around the country will be busy and by the time that this school reopens the prospects will appear quite different from their present aspect.

T.C.A. MEN SPEAK ON Y. M. C. A. WORK

Four men from the Technology Christian Association spoke at a deputation at the Central Church, Newtonville, at 6:30 o'clock, Sunday afternoon. The subject was "The History and Activities of the Y. M. C. A."

Fred N. Dickerman '30 spoke on "Student Y. M. C. A. Work." L. Sigfred Linderoth, Jr. '30, gave "The History of the Y. M. C. A." Willard A. Meyer '32 told about the foreign work and Wallace M. Ross, General Secretary of the T. C. A., spoke on "American Work of the Y. M. C. A."

SPEAKERS TO TELL OF MODERN WORLD

T.C.A. Liberal and Foreign Clubs Sponsor International Institute

President Samuel W. Stratton has endorsed the tentative program for an International Institute which will be held at Technology from February 25 to February 27, under the auspices of the Technology Christian Association, the Liberal Club, and all of the foreign clubs.

Although the entire program is not complete or definite at the present time, it will consist of meetings in Room 10-250, in Walker Memorial, in the Dormitories, and in the different fraternity houses. The committee in charge is attempting to obtain speakers of repute on international questions. Such speakers as Kirby Page, George H. Blakeslee, Albert W. Staub, and Manley O. Hudson are being invited to give addresses.

Last February, the first attempt at an International Institute was made in the colleges of Virginia, when sixteen of the colleges held two day institutes. The purpose of the series was to help students to realize what our modern world is like, to emphasize the importance of congenial international relationships in our present complex civilization, and to start them thinking on new issues. Numerous speakers of national reputation were secured, who spoke in convocations or assemblies, conducted forms and discussion groups and addressed evening gatherings.

CORP. XV MEN WILL VISIT CORPORATIONS

Expenses to be Paid by the Individual Student

(Continued from Page 1)

the men paying their own expenses as they accumulate them. Those who yet members of Corporation XV are are signed up to go and who are not required to become members by the payment of \$1.50 to one of the officers. The group plans to stay at Hotel Bond in Hartford the first night at a cost of \$2.00 per man. In New York the cost of a room will be \$5.00 for the two nights.

Many of the group will see "Cyrano de Bergerac" on Tuesday night, January 29 in which Walter Hampden stars and tickets are to be reserved. If any of those going wish to see this play he should notify Gordon F. Rogers '29 before this evening. The officers urge those who wish to see more of the plays to reserve tickets as soon as possible.

STEFANSSON TO GIVE LECTURES ON ARCTIC

Vilhjalmur Stefansson, noted Arctic explorer, will present a new series of lectures under the auspices of Lowell Institute. This new series is entitled "The Northward Course of Discovery." Two lectures will be given weekly, on Monday and Thursday. "Greek Views of the Nature of the Arctic After 500 B. C." will be presented tomorrow night at Huntington Hall. Tickets may be secured by applying to the Curator of Lowell Institute.

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